

RAW SEQUENCE LISTING

**The Biotechnology Systems Branch of the Scientific and Technical
Information Center (STIC) no errors detected.**

Application Serial Number: 101577,003
Source: IFWP
Date Processed by STIC: 5-3-06

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IFWP

RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/577,003

DATE: 05/03/2006

TIME: 11:21:56

Input Set : E:\DFCI005US.txt
 Output Set: N:\CRF4\05032006\J577003.raw

3 <110> APPLICANT: Kharbanda, Surrender
 4 Kufe, Donald
 6 <120> TITLE OF INVENTION: Modulation of Interaction of MUC1 with MUC1 Ligands
 8 <130> FILE REFERENCE: DFCI:005US
 C--> 10 <140> CURRENT APPLICATION NUMBER: US/10/577,003
 11 <141> CURRENT FILING DATE: 2006-04-24
 W--> 13 <140> CURRENT APPLICATION NUMBER: PCT/US2004/034680
 W--> 14 <141> CURRENT FILING DATE: 2006-04-24
 16 <150> PRIOR APPLICATION NUMBER: 60/514,198
 17 <151> PRIOR FILING DATE: 2003-10-24
 19 <150> PRIOR APPLICATION NUMBER: 60/519,822
 20 <151> PRIOR FILING DATE: 2003-11-12
 22 <160> NUMBER OF SEQ ID NOS: 71
 24 <170> SOFTWARE: PatentIn version 3.3
 26 <210> SEQ ID NO: 1
 27 <211> LENGTH: 164
 28 <212> TYPE: PRT
 29 <213> ORGANISM: Homo sapiens
 31 <400> SEQUENCE: 1
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 34 1 5 10 15
 37 Val Leu Thr Ala Thr Thr Ala Pro Lys Pro Ala Thr Val Val Thr Gly
 38 20 25 30
 41 Ser Gly His Ala Ser Ser Thr Pro Gly Gly Glu Lys Glu Thr Ser Ala
 42 35 40 45
 45 Thr Gln Arg Ser Ser Val Pro Ser Ser Thr Glu Lys Asn Ala Phe Asn
 46 50 55 60
 49 Ser Ser Leu Glu Asp Pro Ser Thr Asp Tyr Tyr Gln Glu Leu Gln Arg
 50 65 70 75 80
 53 Asp Ile Ser Glu Met Phe Leu Gln Ile Tyr Lys Gln Gly Gly Phe Leu
 54 85 90 95
 57 Gly Leu Ser Asn Ile Lys Phe Arg Pro Gly Ser Val Val Val Gln Leu
 58 100 105 110
 61 Thr Leu Ala Phe Arg Glu Gly Thr Ile Asn Val His Asp Met Glu Thr
 62 115 120 125
 65 Gln Phe Asn Gln Tyr Lys Thr Glu Ala Ala Ser Arg Tyr Asn Leu Thr
 66 130 135 140
 69 Ile Ser Asp Val Ser Val Ser Asp Val Pro Phe Pro Phe Ser Ala Gln
 70 145 150 155 160
 73 Ser Gly Ala Gly
 77 <210> SEQ ID NO: 2
 78 <211> LENGTH: 492
 79 <212> TYPE: DNA

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80 <213> ORGANISM: Homo sapiens
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85 accacagccc ctaaaccgc aacagttgtt acaggttctg gtcatgcaag ctctacccca 120
87 ggtggagaaa aggagacttc ggctacccag agaagttcag tgcccagctc tactgagaag 180
89 aatgctttta attcctctt ggaagatccc agcaccgact actaccaaga gctgcagaga 240
91 gagatttttg aatgtttt gcagatttat aaacaagggg gtttctggg ccttccaaat 300
93 attaaggcca ggcaggatc tgggtggta caattgactc tggccttccg agaaggtacc 360
95 atcaatgtcc acgacatgga gacacagttc aatcgtata aaacggaagc agcctctcga 420
97 tataaacctga cgatctcaga cgtcagcgtg agtcatgtgc catttcctt ctctgcccag 480
99 tctggggctg gg 492
102 <210> SEQ ID NO: 3
103 <211> LENGTH: 155
104 <212> TYPE: PRT
105 <213> ORGANISM: Homo sapiens
107 <400> SEQUENCE: 3
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110 1 5 10 15
113 Val Leu Thr Val Val Thr Gly Ser Gly His Ala Ser Ser Thr Pro Gly ~
114 20 25 30
117 Gly Glu Lys Glu Thr Ser Ala Thr Gln Arg Ser Ser Val Pro Ser Ser
118 35 40 45
121 Thr Glu Lys Asn Ala Phe Asn Ser Ser Leu Glu Asp Pro Ser Thr Asp
122 50 55 60
125 Tyr Tyr Gln Glu Leu Gln Arg Asp Ile Ser Glu Met Phe Leu Gln Ile
126 65 70 75 80
129 Tyr Lys Gln Gly Gly Phe Leu Gly Leu Ser Asn Ile Lys Phe Arg Pro
130 85 90 95
133 Gly Ser Val Val Gln Leu Thr Leu Ala Phe Arg Glu Gly Thr Ile
134 100 105 110
137 Asn Val His Asp Val Glu Thr Gln Phe Asn Gln Tyr Lys Thr Glu Ala
138 115 120 125
141 Ala Ser Arg Tyr Asn Leu Thr Ile Ser Asp Val Ser Val Ser Asp Val
142 130 135 140
145 Pro Phe Pro Phe Ser Ala Gln Ser Gly Ala Gly
146 145 150 155
149 <210> SEQ ID NO: 4
150 <211> LENGTH: 465
151 <212> TYPE: DNA
152 <213> ORGANISM: Homo sapiens
154 <400> SEQUENCE: 4
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157 gttacaggtt ctggcatgc aagcttacc ccaggtggag aaaaggagac ttccggctacc 120
159 cagagaagtt cagtgccag ctctactgag aagaatgctt ttaattcctc tctggaaat 180
161 cccagcaccc actactacca agagctgcag agagacattt ctgaaatgtt tttgcagatt 240
163 tataaacaag ggggtttct gggcctctcc aatattaagt tcaggccagg atctgtggtg 300
165 gtacaattga ctctggcctt ccgagaaggt accatcaatg tccacgacat ggagacacag 360
167 ttcaatcagt ataaaacgga agcagcctct cgtatataacc tgacgatctc agacgtcagc 420
169 gtgagtgtat tgccatttcc tttctctgcc cagtctgggg ctggg 465

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Input Set : E:\DFCI005US.txt
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172 <210> SEQ ID NO: 5
173 <211> LENGTH: 173
174 <212> TYPE: PRT
175 <213> ORGANISM: Homo sapiens
177 <400> SEQUENCE: 5
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180 1 5 10 15
183 Val Leu Thr Val Val Thr Gly Ser Gly His Ala Ser Ser Thr Pro Gly
184 20 25 30
187 Gly Glu Lys Glu Thr Ser Ala Thr Gln Arg Ser Ser Val Pro Ser Ser
188 35 40 45
191 Thr Glu Lys Asn Ala Leu Ser Thr Gly Val Ser Phe Phe Leu Ser
192 50 55 60
195 Phe His Ile Ser Asn Leu Gln Phe Asn Ser Ser Leu Glu Asp Pro Ser
196 65 70 75 80
199 Thr Asp Tyr Tyr Gln Glu Leu Gln Arg Asp Ile Ser Glu Met Phe Leu
200 85 90 95
203 Gln Ile Tyr Lys Gln Gly Gly Phe Leu Gly Leu Ser Asn Ile Lys Phe
204 100 105 110
207 Arg Pro Gly Ser Val Val Val Gln Leu Thr Leu Ala Phe Arg Glu Gly
208 115 120 125
211 Thr Ile Asn Val His Asp Val Glu Thr Gln Phe Asn Gln Tyr Lys Thr
212 130 135 140
215 Glu Ala Ala Ser Arg Tyr Asn Leu Thr Ile Ser Asp Val Ser Val Ser
216 145 150 155 160
219 Asp Val Pro Phe Pro Phe Ser Ala Gln Ser Gly Ala Gly
220 165 170
223 <210> SEQ ID NO: 6
224 <211> LENGTH: 519
225 <212> TYPE: DNA
226 <213> ORGANISM: Homo sapiens
228 <400> SEQUENCE: 6
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231 gttacaggt ctggcatgc aagctctacc ccaggtggag aaaaggagac ttccggctacc 120
233 cagagaagtt cagtgcggcag ctctactgag aagaatgctc tgtctactgg ggtctctttc 180
235 ttttcctgt cttttcacat ttcaaacctc cagtttaatt cctctctgga agatcccagc 240
237 accgactact accaagagct gcagagagac atttctgaaa tgttttgca gattataaaa 300
239 caaggggggtt ttctgggcct ctccaaatatt aagttcaggc caggatctgt ggtgttacaa 360
241 ttgactctgg cttcccgaga aggtaccatc aatgtccacg acatggagac acagttcaat 420
243 cagttataaaa cggaaacgc ctctcgatata aacctgacga tctcagacgt cagcgtgagt 480
245 gatgtgccat ttcccttctc tgcccaagtct ggggtctggg 519
248 <210> SEQ ID NO: 7
249 <211> LENGTH: 140
250 <212> TYPE: PRT
251 <213> ORGANISM: Homo sapiens
253 <400> SEQUENCE: 7
255 Met Thr Pro Gly Thr Gln Ser Pro Phe Phe Leu Leu Leu Leu Thr
256 1 5 10 15
259 Val Leu Thr Val Val Thr Gly Ser Gly His Ala Ser Ser Thr Pro Gly

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260 20 25 30
 263 Gly Glu Lys Glu Thr Ser Ala Thr Gln Arg Ser Ser Val Pro Ser Thr
 264 35 40 45
 267 Asp Tyr Tyr Gln Glu Leu Gln Arg Asp Ile Ser Glu Met Phe Leu Gln
 268 50 55 60
 271 Ile Tyr Lys Gln Gly Gly Phe Leu Gly Leu Ser Asn Ile Lys Phe Arg
 272..65 70 75 80
 275 Pro Gly Ser Val Val Gln Leu Thr Leu Ala Phe Arg Glu Gly Thr
 276 85 90 95
 279 Ile Asn Val His Asp Val Glu Thr Gln Phe Asn Gln Tyr Lys Thr Glu
 280 100 105 110
 283 Ala Ala Ser Arg Tyr Asn Leu Thr Ile Ser Asp Val Ser Val Ser Asp
 284 115 120 125
 287 Val Pro Phe Pro Phe Ser Ala Gln Ser Gly Ala Gly
 288 130 135 140
 291 <210> SEQ ID NO: 8
 292 <211> LENGTH: 420
 293 <212> TYPE: DNA
 294 <213> ORGANISM: Homo sapiens
 296 <400> SEQUENCE: 8
 297 atgacaccgg gcaccaggc tcctttcttc ctgctgctgc tcctcacagt gcttacagtt 60
 299 gttacagggtt ctggcatgc aagctctacc ccaggtggag aaaaggagac ttccggctacc 120
 301 cagagaagtt cagtggccag caccgactac taccaaagagc tgcagagaga catttctgaa 180
 303 atgttttgc agatttataa acaagggggt tttctggcc tctccaatat taagttcagg 240
 305 ccaggatctg tgggtgtaca attgactctg gccttccgag aaggtaccat caatgtccac 300
 307 gacatggaga cacagttcaa tcagtataaa acggaagcag cctctcgata taacctgacg 360
 309 atctcagacg tcagcgtgag tggatgtgcca tttcccttct ctgcccagtc tggggctggg 420
 312 <210> SEQ ID NO: 9
 313 <211> LENGTH: 130
 314 <212> TYPE: PRT
 315 <213> ORGANISM: Homo sapiens
 317 <400> SEQUENCE: 9
 319 Met Thr Pro Gly Thr Gln Ser Pro Phe Phe Leu Leu Leu Leu Thr
 320 1 5 10 15
 323 Val Leu Thr Val Val Thr Gly Ser Gly His Ala Ser Ser Thr Pro Gly
 324 20 25 30
 327 Gly Glu Lys Glu Thr Ser Ala Thr Gln Arg Ser Ser Val Pro Ser Ser
 328 35 40 45
 331 Thr Glu Lys Asn Ala Ile Pro Ala Pro Thr Thr Lys Ser Cys Arg
 332 50 55 60
 335 Glu Thr Phe Leu Lys Trp Pro Gly Ser Val Val Val Gln Leu Thr Leu
 336 65 70 75 80
 339 Ala Phe Arg Glu Gly Thr Ile Asn Val His Asp Val Glu Thr Gln Phe
 340 85 90 95
 343 Asn Gln Tyr Lys Thr Glu Ala Ala Ser Arg Tyr Asn Leu Thr Ile Ser
 344 100 105 110
 347 Asp Val Ser Val Ser Asp Val Pro Phe Pro Phe Ser Ala Gln Ser Gly
 348 115 120 125
 351 Ala Gly

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Input Set : E:\DFCI005US.txt
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352 130
 355 <210> SEQ ID NO: 10
 356 <211> LENGTH: 390
 357 <212> TYPE: DNA
 358 <213> ORGANISM: Homo sapiens
 360 <400> SEQUENCE: 10
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 363 gttacaggtt ctggcatgc aagctctacc ccaggtggag aaaaggagac ttccggctacc 120
 365 cagagaagtt cagtggccag ctctactgag aagaatgcta tcccagcacc gactactacc 180
 367 aagagctgca gagagacatt tctgaaatgg ccaggatctg tgggtggata attgactctg 240
 369 gccttccgag aaggtaccat caatgtccac gacatggaga cacagttcaa tcagtataaa 300
 371 acggaagcag cctctcgata taacctgacg atctcagacg tcagcgtgag tgatgtgcca 360
 373 ttccctttct ctgcccagtc tggggctggg 390
 376 <210> SEQ ID NO: 11
 377 <211> LENGTH: 102
 378 <212> TYPE: PRT
 379 <213> ORGANISM: Homo sapiens
 381 <400> SEQUENCE: 11
 383 Phe Asn Ser Ser Leu Glu Asp Pro Ser Thr Asp Tyr Tyr Gln Glu Leu
 384 1 5 10 15
 387 Gln Arg Asp Ile Ser Glu Met Phe Leu Gln Ile Tyr Lys Gln Gly Gly
 388 20 25 30
 391 Phe Leu Gly Leu Ser Asn Ile Lys Phe Arg Pro Gly Ser Val Val Val
 392 35 40 45
 395 Gln Leu Thr Leu Ala Phe Arg Glu Gly Thr Ile Asn Val His Asp Val
 396 50 55 60
 399 Glu Thr Gln Phe Asn Gln Tyr Lys Thr Glu Ala Ala Ser Arg Tyr Asn
 400 65 70 75 80
 403 Leu Thr Ile Ser Asp Val Ser Val Ser Asp Val Pro Phe Pro Phe Ser
 404 85 90 95
 407 Ala Gln Ser Gly Ala Gly
 408 100
 411 <210> SEQ ID NO: 12
 412 <211> LENGTH: 306
 413 <212> TYPE: DNA
 414 <213> ORGANISM: Homo sapiens
 416 <400> SEQUENCE: 12
 417 tttaattcct ctctggaaga tcccagcacc gactactacc aagagctgca gagagacatt 60
 419 tctgaaatgt ttttgcagat ttataaacaa gggggtttgc tgggccttc caatattaag 120
 421 ttcaggccag gatctgtggt ggtacaattg actctggct tccgagaagg taccatcaat 180
 423 gtccacgaca tggagacaca gttcaatcag tataaaacgg aagcagcctc tcgatataac 240
 425 ctgacgatct cagacgtcag cgtgagtgtat gtgccatttc ctttctctgc ccagtctggg 300
 427 gctggg 306
 430 <210> SEQ ID NO: 13
 431 <211> LENGTH: 375
 432 <212> TYPE: PRT
 433 <213> ORGANISM: Homo sapiens
 435 <400> SEQUENCE: 13
 437 Met Thr Pro Gly Thr Gln Ser Pro Phe Phe Leu Leu Leu Leu Thr

RAW SEQUENCE LISTING ERROR SUMMARY DATE: 05/03/2006
PATENT APPLICATION: US/10/577,003 TIME: 11:21:57

Input Set : E:\DFCI005US.txt
Output Set: N:\CRF4\05032006\J577003.raw

Invalid <213> Response:

Use of "Artificial" only as "<213> Organism" response is incomplete, per 1.823(b) of New Sequence Rules. Valid response is Artificial Sequence.

Seq#:45,46,47,48,49,50,51,52,53,54,55,56,57,58,59,60,61,62,63,64,65,66,67,68
Seq#:69,70,71

VERIFICATION SUMMARY
PATENT APPLICATION: US/10/577,003

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Input Set : E:\DFCI005US.txt
Output Set: N:\CRF4\05032006\J577003.raw

L:10 M:270 C: Current Application Number differs, Replaced Current Application Number
L:13 M:280 W: Numeric Identifier already exists, <140> found multiple times
L:13 M:281 W: Numeric Fields not Ordered, <140> not ordered!.
L:13 M:270 C: Current Application Number differs, Replaced Current Application Number
L:14 M:280 W: Numeric Identifier already exists, <141> found multiple times
L:14 M:271 C: Current Filing Date differs, Replaced Current Filing Date